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Protection Update

is the newsletter for the ISEA Partnership for Worker Protection program. It is intended for anyone who specifies, purchases or uses personal protective equipment, and those who regulate it. *Protection Update* is distributed without charge, and also is available on ISEA's website www.safeteequipment.org.

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Construction Writers Association

ISEA

INTERNATIONAL
SAFETY EQUIPMENT
ASSOCIATION

Vegas Monorail Builders Don't Accept Excuses When It Comes to PPE Use

By Joe Walker
Editor, *Protection Update*

The next time you visit Las Vegas, look overhead at the sleek trains gliding swiftly and softly along a concrete guideway linking the "Strip" hotels to the Convention Center area. And if you are heading for a show at the convention center or want to visit a neighboring casino, hop aboard! Enjoy the convenience and yes, the cost savings, this new system brings for visitors to the city that never goes to sleep.

The Robert N. Broadbent Monorail is scheduled to begin whisking passengers around town early in 2004. This driverless, electric-powered state-of-the-art transport system will operate on a four-mile route, directly connecting eight major resorts, 25,000 hotel rooms, and nine convention

facilities, including the world's largest convention center. The trip end-to-end will take less than a quarter hour. If you have ever driven in Las Vegas or waited for a cab at the convention center, you know that this certainly will represent yet another wonder in

a city of wonders.

The new monorail project grew from an earlier tran-



Las Vegas Monorail Fast Facts

- There has never been a passenger fatality or serious injury on monorail cars of the type that will be used in Las Vegas.
- Stations serving this first phase of the system will be Sahara Hotel, Las Vegas Hilton, Convention Center, Harrah's/Imperial Palace, Flamingo/Caesar's Palace, Bally's & Paris Las Vegas, and MGM Grand.
- You will be able to ride for less than \$3.
- Eventually, the monorail will be extended to downtown (Fremont Street), McCarran Airport, and the west side of the Strip. ●

sit venture between the MGM Grand Hotel and Bally's Hotel. They built a one-mile monorail that connected the two properties, always thinking that the project should be expanded one day. Almost immediately, Bally's saw revenues jump from the increased foot traffic. In 1997, the state approved a plan for the private sector to own, operate and charge a fare for an expanded public monorail system. The Las Vegas Monorail Co., which owns the system, was created in May 2000 as a non-profit corporation. Work on the \$650 million project began on a 40-month design-build schedule. Groundbreaking took place in August 2001.

While in Las Vegas for World of Concrete 2003, this reporter noticed that construction workers on the project seemed to be ► 13

NEW PROTECTION FOR ROAD CONSTRUCTORS



Direct Safety Buyer's Guide

FOR THE WHOLE PERSON...

From **Direct Safety** is the *Buyer's Guide*, September-December 2003, which provides a complete array of products to meet all safety requirements. The 284-page catalog includes personal protection, industrial safety and traffic control products. Free technical support is available at 800-462-3140. 800-528-7405, fax 800-760-2975, direct-safety.com.

From **Carhartt** are a flame-resistant (FR) bomber jacket and FR denim jean, both featured in a new brochure covering all of the company's FR work wear.

The bomber jacket is constructed with 13-ounce fabric, which provides superior abrasion resistance and offers increased comfort and durability, the company said. The jeans meet ASTM, OSHA and NFPA 70E requirements, Carhartt said, and are U.S. union made. 800-786-3916 or carhartt.com.



Carhartt's flame-resistant bomber jacket

From **International Safety Equipment Association**, 703-525-1695 or safetysystem.org, are:

- An updated *Safety & Personal Protective Equipment Buyer's Guide* to the vast array of products from ISEA's member companies. The 32-page guide provides a ready reference to specific types of products and contacts at the companies that make them. Sixteen major product categories and more than 150 sub-categories are covered.
- An updated guide to high-visibility products. The 16-page *Products to Keep You Visible Day or Night - In Any Light* explains the three classes of high-visibility garments for various work environments. It also answers questions frequently asked about ANSI/ISEA 107-1999 (*American National Standard for High-Visibility Safety Apparel*), and gives information on how to contact ISEA members that make apparel that meet the standard.

From **Seton Identification Products** is a new EH&S compliance website. *EH&S*

ManagerOnline is the premium upgrade service of Seton's Compliance Resource Center. Subscribers get full access to all "premium content" to help manage EH&S compliance programs, including training

presentations, safety plans, *Federal Register e-Library*, regulatory alerts and a searchable MSDS database. Sign up for a free trial at seton.com or 800-571-2596.

New Seton EH&S compliance website



AGAINST FALLS...

From **Aeoro Company** is the AOSafety line of reusable anchors, available in 5,000- and 10,000-pound tensile-strength units. They are made of heavy-duty stainless steel and other non-corrosive materials, according to the company, and are color coded for use in both fall protection and multipurpose (lifting, vertical and overhead ceilings). AO Safety also has begun selling its own brand of fall protection and confined space systems, and the company will offer comprehensive training for these products. 800-225-9038 or aosafety.com.



Reusable anchors from AOSafety

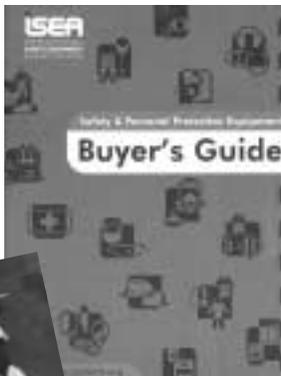
From the Miller® Fall Protection Division of

Bacou-Dalloz Ultra harness



Bacou-Dalloz, 800-873-5242 or bacou-dalloz.com, are the:

- Ultra harnesses that have more comfort and safety features than ever, according to the company. The DuraFlex and DuraFlex Python have quick-connect buckles on the chest and leg straps, and a new back D-ring pad that helps to maintain the harness shape for tangle-free donning.
- Black Rhino self-retracting lifeline, which the company says is the smallest and lightest nine-foot lifeline on the market. It has a quick-activating braking mechanism, and is



Updated ISEA Safety & Personal Protective Equipment Buyer's Guide and high-visibility products guide



Titan-by-Miller™ T-FLEX™ harnesses



designed for harsh environments such as concrete construction and welding, Miller reported.

● Titan-by-Miller™ T-FLEX™ harnesses, which give greater comfort at competitive prices. The five Titan T-FLEX harness models have soft, stretchable, adjustable webbing that provides maneuverability and ease of wear, Bacou-Dalloz says. Read about Titan-by-Miller self-retracting lifelines and the T-BAK™ lanyard in the Winter 2004 *Protection Update*.

From **DBI/SALA**, 800-328-6146 or dbisala.com, are:

- The ExoFit XP™ harness, which includes design refinements to further improve comfort, performance and safety. They include lightweight mesh padding that keeps the worker cool and comfortable; spring-loaded D-ring with a built-in indicator that gives visual indication of impact; and color-coded buckles for easy donning, the company says.

ExoFit XP™ harness from DBI/SALA

● An 85-foot cable unit joining the Ultra-Lok® self-retracting lifeline series, which also includes 11-, 20-, 30 and 50-foot lengths. The Ultra-Lok series pays out lifeline as the user moves away and automatically retracts as the user moves closer, according to the company.

● A rope grab that eliminates nuisance lock-ups, according to the company. The rope grab is designed to connect to a 5/8-inch rope lifeline; it follows the user up and down the lifeline, allowing hands-free operations to maximize freedom of movement, and it has two systems – one that locks in the event of a fall, and the other to prevent the user from panic grab or death-grip situations.



DBI/SALA Ultra-Lok® self- retracting lifeline

From **Elk River, Inc.**, is the Eagle™Lite

Elk River, Inc. Eagle™Lite harness



harness which, according to the company, is designed for the construction worker with all-day comfort in mind. It is a lighter harness that has a "multitude of features and a comfort focus," Elk River says. 800-633-3954 or elkriver.com

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LEADING THE ADVANCEMENT OF HEARING PROTECTION.™

NEW PROTECTION continued



Protecta's new fall protection catalog.

From **Protecta International** is a new catalog of fall protection products and systems, including full-body harnesses/accessories, self-retracting lifelines, shock-absorbing lanyards, positioning devices, anchorage devices and connectors, confined-space equipment, equipment bags, emergency escape devices, sky-seat working chair, heavy load fall arrestors, horizontal lifeline systems, roof anchor components, lifeline anchor stanchions, vertical climbing systems, and rope grab/lifeline kits. 800-856-2442 or protecta.com.

From **Söll Americas**, is the Xenon™ horizontal cable lifeline system, which provides hands-free fall protection with a shuttle connector that automatically bypasses intermediate supports without disconnecting from the lifeline, and slides freely along the entire length of the system for ease of use and added worker safety, the company says. 866-BUY-SOLL.



Xenon™ lifeline system from Söll America

FOR THE HEAD, FACE AND EYES¹

From **Haws Corporation** is a portable eyewash that delivers traditional Haws security features in a small, lightweight, and very flexible design, according to the company. The Model 7500EB.12V is designed to specifically address eyewash needs in remote, cold climates, Haws said. Flushing water is heated via a 12-volt connection to a vehicle battery, and the unit has a double-insulated jacket to minimize heat loss. 888-640-4297 or hawsco.com.



Haws Corporation portable eyewash

From **ISEA** is an updated standard for hardhats. The *American National Standard for Industrial Head Protection*, ANSI Z89.1-2003 includes specifications for helmets designed to offer protection from lateral impact (Type II) or top-only impact (Type I), giving employers and users the flexibility to specify the helmet that meets the needs of specific workplaces. 703-525-1695 or safetyequipment.org.

Updated Standard for Industrial Head Protection from ISEA



V-Gard® driver hardhats

From **Mine Safety Appliances Co.**, 800-MSA-2222 or msanet.com, are:

- The first two hardhats in the Freedom Series™ V-Gard, caps. One has an American flag design, and the other is a patriotic Canadian design.
- V-Gard® hardhats featuring three additional Nascar racing drivers. New this year are Matt Kenseth #17, Kurt Busch #97 and Greg Biffle #16. The caps are embossed with the team sponsors, the drivers' racing numbers and signatures.
- A non-vented Advance™ helmet to go along with the Advance cap that has cooling vents along the crown. The non-vented model appeals to users who want both the rain gutter and lateral contour above the ear with dielectric head protection, MSA said. The caps come with either four- or six-point suspension.
- Arctic™ Elite protective eyewear, which the company said is stylish, economical and more comfortable than the original Arctic model, with a soft padded nose bridge and soft-tipped temples. The "cat's-eye" look comes in either clear or gray anti-fog lenses with built-in side-impact protection.
- Sedona eye-wear that has a stylish lens contoured to promote eye protection and comfort, temples that adjust vertically and horizontally, soft temple ends, a padded and vented brow, and one-piece, soft nose pad, the company said. It is available in several lens shades, with both anti-scratch and anti-fog benefits.



Freedom Series™ V-Gard, caps



MSA Sedona eyewear

¹ ALL LENSES MENTIONED IN PROTECTION UPDATE MEET THE ANSI Z87.1 STANDARD FOR INDUSTRIAL EYE PROTECTION.



Half-mask voice transmission system from AOSafety®

FOR HEARING AND BREATHING...

From **Aeero Company**, 800-678-4163 or aosafety.com are:

● AOSafety® half-mask voice transmission system (VTM), which the company says provides clear, reliable communications for environments where half-mask respirators are required and verbal communication is necessary. The VTM is a noise-canceling microphone sealed to a QuickLatch™ exhalation valve cover. It is NIOSH-approved for use on QuickLatch, EZ-Drop™, AO 5 Star® and FLEXI-STAR® half-mask air-purifying respirators, and can be used with Peltor™ communications devices.

● AOSafety Mini Conform™ P100 respirator filter. Its small size allows it to clip onto a chemical cartridge or it

can be used as a stand-alone filter, the company says. Unlike a stacked cartridge/filter combination,

this filter can be replaced without having to discard the whole unit, thus extending the useful life of the cartridge or filter, depending on which is used up first.

From **Draeger Safety** are micropac Plus monitors for carbon monoxide (CO) and oxygen, which are ideal for monitoring worker exposure in the construction industry, the company reports. Both are ultra-compact, lightweight, low-profile units that can be worn on the lapel, shirt pocket or belt. Draeger offers similar instruments for hydrogen cyanide and hydrogen sulfide monitoring. 412-787-8383 or draeger.net.

From **Hörnell** is the Speedglas® FlexView with Adflo® welding helmet/respirator system, which combines a retractable auto-darkening lens with an advanced powered

air-purifying respirator (PAPR). Full eye, face and respiratory protection is provided for both welding and very low light weld preparation conditions, the company says. 800-628-9218 or hornell.com.

From **Mine Safety Appliances Co.**, 800-MSA-2222 or msanet.com, are:

● Solaris™ multi-gas detector, which the company says gives simultaneous detection of carbon monoxide, oxygen, hydrogen sulfide and combustible gas. Small and light, the Solaris detector is comfortable enough to be worn all day and provides reliable protection without interfering with the user's range of motion. It is ideal for confined spaces in construction, according to MSA.

● Round FormFit™ urethane earplugs, with and without an attached cord. The plug is a rounded version of MSA's hexagonal FormFit plug. Warmed by body temperature, ▶ 10



Speedglas®, FlexView with Adflo® welding helmet/respirator system from Hörnell



MSA's Solaris™ multi-gas detector



AOSafety Mini Conform™ P100 respirator filter



Draeger micropac Plus CO₂ monitor

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ANSI Class II Safety Vest with Pockets

ERB SAFETY HI-VIZ SAFETY VESTS

ANSI CLASS II SAFETY VEST OFFERS:

- 100% polyester knit with 2" retroreflective trim
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- In Hi-Viz Lime w/ Silver tape or Hi-Viz Orange with Yellow tape
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- High quality vest made in USA
- Meet or exceed the requirements of ANSI/ISEA 107-1999, for Class II Garments.



ANSI CLASS II SAFETY VEST WITH POCKETS

- Pockets that are sewn inside of vest
- Right pocket measures 9" L x 6" W
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TIGHT-WEAVE MESH SAFETY VEST OFFERS:

- Lightweight, highly visible woven mesh material
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- Durable elastic side straps

MAKING CONSTRUCTION SAFER AROUND THE NATION

From the U.S. Department of Labor (DOL) and Occupational Safety and Health Administration (OSHA), visit osha.gov:

- Safety officers can now check out the revised **OSHA Form 300, Log of Work-Related Injuries and Illnesses** which may be found on OSHA's web site. The new form will take effect in 2004 with several important changes. Foremost among them is the addition of an occupational hearing loss column. Other changes include clearer formulas for calculating incidence rates,

and new recording criteria for hearing loss in the "Overview" section. OSHA made these changes in response to public suggestions. The forms will be available in hard copy later this fall.

- New **publications to enhance worker safety and health**. Lessons learned from the World Trade Center cleanup are chronicled in Inside the Green Line (OSHA 3189). A revised All About OSHA (OSHA 2056) has updated information to reflect changes in forms, standards and regulations. Other new publications include OSHA Strategic Management Plan (OSHA 3186), Safeguarding Equipment and Protecting Workers from Amputations (OSHA 3170-107R), and a new card about hazards associated with working in the sun (OSHA 3166).

- Self-inspection **checklist for asbestos**, which may be completed on the OSHA website and then printed out for your records; 26 questions help ensure that you have addressed potential asbestos hazards in the workplace.

- A new web page of **Assistance for the Electrical Contractors** Industry, providing information about hazards that electrical workers may experience as part of their jobs; it includes information about standards that apply to electrical work and where to find information about hazards and solutions.

- Plans to target for **surprise inspections** 3,200 worksites that reported 14 or more injuries or illnesses resulting in lost work days or restricted activity per 100 employees, and worksites that reported nine or more cases per 100 resulting in days away from work, based on 2001 injury and illness information.

From the National Institute for Occupational Safety and Health (NIOSH), visit cdc.gov/niosh:

- An online "**Hearing Protector Device Compendium**," which includes data on hearing protectors submitted by manufacturers. The resource is searchable by product type, manufacturer and Noise Reduction Rating. If the user enters a noise exposure

X-plore your world
more safely,
more comfortably,
every workday.



Dräger



X-plore 3300



X-plore 3500



X-plore 5500

Introducing the new Dräger X-plore® series of half mask and full face mask respirators setting a higher standard in comfort, fit and use. X-plore is available in three versions with three sizes.

- X-plore 3300 is a limited use half mask for those needing an economical yet comfortable respirator.
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- X-plore 5500 full face mask is for those requiring the highest level of respiratory and eye protection. Choose the X-plore respirator that best solves your industrial application, then call your Dräger representative today. You'll discover the best solutions for greater comfort and fit in respiratory protection— Dräger X-plore.

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www.draeger.com

level, the database will calculate the attenuation needed to provide a protected level between 75 and 85 decibels.

- **Asphalt Fume Exposure** During the *Application of Hot Asphalt on Roofs*, which identifies steps in the process that may involve worker exposure to fumes, and identifies current engineering controls and work practices to reduce exposures.
- A new web site Topics Page that provides a concentrated resource on **metalworking fluids** (MWFs), and a convenient portal to additional information. Some 1.2 million workers are exposed to MWFs, which are used to reduce heat and friction and to improve product quality in industrial machining and grinding operations, NIOSH said.
- Research to identify areas where more comprehensive, detailed and intricate data on **occupational exposures to welding fumes** is necessary, and to fill gaps that are identified; more than 400,000 men and women are employed in welding and related occupations in the United States.

From the National Safety Council (NSC), visit nsc.org:

- A survey finding that 60 percent of employers recognize the **high cost of off-the-job injuries**, but that most do not track these injuries or costs. NSC surveyed 1,300 corporate safety and health professionals. Nearly 45 percent of companies do not offer any kind of off-the-job safety program, the survey showed.
- **2003 Industry Leader Awards** presented to the Miami Quarry of Florida Rock Industries, Inc., and to JH Kelly, Vancouver, Wash., for achieving the best safety performance in the construction industry. Florida Rock is a leading producer of construction aggregates, ready mixed concrete, concrete block, portland cement and prestressed concrete. JH Kelly is a fourth generation, family-owned construction company.
- Has established a new **global leadership award** that will be presented annually to companies that demonstrate commendable leadership and excellence in safety, health and environmental (HS&E) perfor-

mance. The award, being underwritten by the ExxonMobil Foundation, will show how measurable achievement in HS&E performance is linked to business performance. ▶ 8



Critical Information.

Hands-free radio interface can be invaluable during the operation or maintenance of complex equipment. Fewer distractions and less "radio fumbling" enhance your efficiency and safety.

The new **ClearCommand® HCS** Helmet Communications System from MSA simplifies radio communications so you can focus on the task at hand while getting the **CRITICAL INFORMATION** you need.

Fact One: The system simply snaps over the ratchet of any MSA hardhat, with no tools or batteries required.

Fact Two: Because the system uses an exclusive bone-conduction microphone, only your voice is transmitted. Communications are virtually unaffected by ambient background noise and respiratory protection.

Fact Three: A flexible boom ear speaker provides clear audio directly to your ear, so you can monitor radio commands in high-noise environments while remaining hands-free.

Fact Four: The new system is intrinsically safe and compatible with most 2-way radios.

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MAKING CONSTRUCTION SAFER continued

From the American Society of Safety Engineers (ASSE), visit asse.org:

- An updated **American National Standard for eye and face protection**. Z87.1-2003 (*Occupational and Educational Personal Eye and Face Protection Devices*) gives general requirements, descriptions and types, testing, marking, selection, care and use of personal eye and face protectors. The standard also addresses NIOSH-approved respirators for protection from impact hazards and eye irritants, and welding respirators for impact and optical radiation protection, ASSE said.
- The **Third Edition of Noise Control**, which examines noise control principles, provides an overview of noise and its effects on health, identifies frequently occurring types of noise in the workplace, and suggests ways to reduce or eliminate it.
- An updated, hardcover edition of **Basic**

Safety Administration: A Handbook for the New Safety Specialist. The handbook introduces key elements of a safety program and explains safety fundamentals including risk management, human error, OSHA compliance, standards and codes, inspections, accidents and personal protective equipment.

From other sources:

- Approximately 90 percent of all **chemical burns result from victims failing to follow their company's personal protective equipment (PPE) policy** for the specific task and chemical they were working with, according to a two-year study by The Chlorine Institute (CI). CI reviewed 300 chemical burn OSHA Recordable Injuries to identifying the most prevalent causes of chemical burn injuries and, subsequently, develop recommendations that could help eliminate them. Find the report at CL2.com, or contact Gary Trojak, 703-741-6068.
- Associated General Contractors of America has given its **2003 Grand Award for Safety** to Denark Construction, Inc., of Knoxville, Tenn. The award recognizes successful program compliance, safety processes, management involvement and company culture. For more information about Denark's program, contact Kaye Love, Denark safety manager and education coordinator, klove@denark.com.
- **"Shortcomings with equipment, including personal protective equipment (PPE),** were identified in over half of all causes in construction accidents, according to a new British study. *Causal Factors in Construction Accidents* was published by *Health and Safety Executive* magazine in collaboration with Loughborough University and the University of Manchester Institute of Science and Technology.
- The 2003 **Mid-West Work Zone Safety Conference**, Exhibit, & Health Fair will be December 2-5 in Springfield, Ill. It is being held in conjunction with the Illinois Department of transportation and U.S. Federal Highway Administration "Making Work Zones Better" Workshop. Sponsors are the American Road & Transportation Builders Association (ARTBA) and The Laborers' Health and Safety Fund. Admission is free. Call ARTBA's Ashley Stow at 202-289-4434 ●

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Eye Wash Stations have Quick-pour bottles to deliver fast liquid relief. Available in 16 and 32 ounces



First Aid Eye Wash with two natural phosphate buffers and no eye irritants provides optimum healing, while helping to eliminate splash. Available in 4 oz bottles with sterile wrapped eye cup and also in 1oz bottles.

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OSHA, ISEA Align to Protect Workers in Heavy Construction

The U.S. Occupational Safety and Health Administration (OSHA) and the International Safety Equipment Association (ISEA) have formed an alliance to cultivate safer and more healthful workplaces for workers in heavy construction.

John L. Henshaw, assistant secretary of labor for OSHA, and Daniel K. Shipp, ISEA president, signed the historic agreement during a ceremony September 9 at the National Safety Council Congress and Expo in Chicago. Under the alliance, OSHA and ISEA will promote safety and health in heavy construction workplaces by:

- Disseminating information to inform users

about the appropriate forms of personal protective equipment (PPE) for various hazards, and the value of using PPE to mitigate the hazards of heavy construction.

- Speaking, exhibiting or appearing at conferences, meetings or other events to promote the effectiveness of safety and health programs.
- Promoting communication between ISEA and its members and OSHA personnel in order to stay current with developments in the field.
- Working with other OSHA Alliance participants on construction industry projects that are addressed and developed through the Alliance Program.

An implementation team made up of OSHA and ISEA representatives will develop a plan of action, determine working procedures, and identify the roles and responsibilities of participants, and then will meet quarterly to track and share information on activities and results. ●



ISEA President Dan Shipp (left) and John Henshaw, assistant secretary of labor for OSHA, sign the OSHA-ISEA Alliance at ISEA's exhibit during the National Safety Council Congress and Expo.

OSHA's \$100,000 Club for Construction-related Safety Citations

The U.S. Occupational Safety and Health Administration (OSHA) has proposed penalties of \$100,000 or more for the following recent alleged failures to protect workers from potential hazards, including many that could be avoided or mitigated by safety equipment:

- Kiewit Offshore Services Ltd., Ingleside, Texas, \$294,000 for failure to implement standards that protect workers against welding hazards while working in a confined space at the company's facility, where two workers were killed in January 2003. The fatalities occurred when accumulated gas ignited in a confined space where the men were fabricating bridge footings.
- New Creation Stucco, Inc., Franklin Square, N.Y., \$170,000 for failure to protect employees from the hazards of working on roofs and elevated scaffolds at two Long Island work sites. Inspectors found numerous violations, including not giving workers hardhats and not providing guardrails or personal fall-arrest systems.
- Piedmont Hawthorne Aviation, Rochester, N.Y., \$157,500 for 14 safety violations, including failure to require employees to use eye protection and failure to implement a respiratory protection program at its ground service and maintenance operations at Greater Rochester International Airport.
- Imperial Masonry Ltd., Houston, \$117,500 for failure to protect employees from falls and other scaffold-related hazards at a Dallas construction site. Citations included failing to protect workers on scaffolding from falling and to ensure that employees were wearing hardhats.
- Superior Walls, Poughkeepsie, N.Y., \$109,500 for failure to protect employees against safety hazards during the manufacture of concrete foundation panels. The company failed to prevent the accidental start-up of machinery during maintenance, and to properly guard a radial arm saw to prevent employee contact with the blade.
- R.B.T. Welders, Raceland, La., \$106,200 for failure to protect workers against welding hazards while working in a confined space, resulting in an accident that took two lives. R.B.T. was a subcontractor to Kiewit Offshore Services (see first item in this story). Citations included failing to evaluate respiratory hazards.



MSA Round FormFit urethane earplugs

NEW PROTECTION

from page 5

the disposable plugs form to the ear's contours to fit at a Noise Reduction Rating of 29dB, MSA said.

NEW!

Webbing Protected with Teflon HT for improved abrasion resistance.

Teflon® is a registered trademark of DuPont. Only DuPont makes Teflon®.

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NEW!

DURAFLEX® PYTHON™ HARNESS

Discover "Wraparound Comfort"

Tangle-free, cushioned tubular design and stretchable DuraFlex® webbing.

BACKBITER™ TIE-BACK LANYARD

"Tie-Back Safety"

All-in-one 6' lanyard with SofStop® Shock Absorber and cross-arm anchorage connector.

NEW!

SCORPION™ PERSONAL FALL LIMITER

"A Cost-Effective Alternative to Shock-Absorbing Lanyards"

Requires less fall clearance, offers greater mobility and prevents tripping hazards.

MIGHTYLITE SELF-RETRACTING LIFELINES

"No Annual Factory Recertification"

Available in 20', 30', 50', 65', 100', 130', or 175' lengths.

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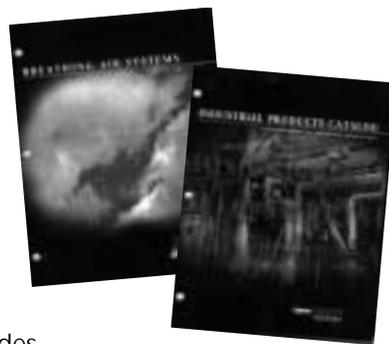
More Info? 800/873-5242

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Your Fall Protection Outfitter

From **Scott Health & Safety** are two new product catalogs. The 35-page, full-color *Industrial Products Catalog* covers face pieces, communications, SCBAs, air sources, confined space/aerial equipment, escape respirators, filtered air, instruments and information about training, technical support and customer service. The 15-page *Breathing Air Systems* catalog includes stationary and mobile breathing apparatus cylinder charging stations, compressors, charge stations, purification systems, control panels, storage systems, paint options for breathing air systems, and portable air compressors. 800-247-7257 or scotthealthsafety.com.



New product catalogs from Scott

FOR THE HANDS...

From **Ansell Occupational Healthcare** is the HyFlex® NBR glove, which the company says provides abrasion resistance and oil repellency, with excellent dry grip for applications involving small to medium-size parts. HyFlex NBR is available in two styles – 11-900, nitrile-dipped palm coat, and the 11-950 for added protection for the back of the hand. 800-800-0444 or ansell.com. ●

Ansell HyFlex® NBR glove



Hardhats Forward and Backward, Round Three: A Clarification

An article in the Summer 2003 *Protection Update* reported that "for a hardhat to perform properly when worn [with the bill of the cap facing backward], the suspension must be reversed in the helmet so that the headband is aligned with the wearer's head."

In fact, while some brands of protective caps require reversing the suspension in order to wear them backward, others do not. Specifiers, purchasers and users are encouraged to check with the manufacturer to determine if your hardhat provides equivalent protection when worn backward. And your hardhat manufacturer can provide evidence that the helmet was tested in the reverse position, as well as requirements for any suspension changes.

Pick Up Your World of Concrete PPE at the 'ISEA Safety Station'

World of Concrete (WOC) 2004 is coming up next February in Orlando. Before you watch the outdoor demos, pick up your free PPE at the "ISEA Safety Station." We'll be right at the entrance to the outdoor demos, so it will be difficult to miss us handing out safety specs, earplugs and respirators to keep you safe at the show and when you return home. And be sure to visit ISEA members who are sponsoring the "Safety Station" and exhibiting at WOC. A list will be published in the Winter 2004 *Protection Update*, coming in January.

Work-Zone Fatalities Set Appalling Record in 2002

2002 set an all-time record for roadway work-zone fatalities as accidents cost 1,181 lives, according to the latest figures from the National Highway Traffic Safety Administration (NHTSA).

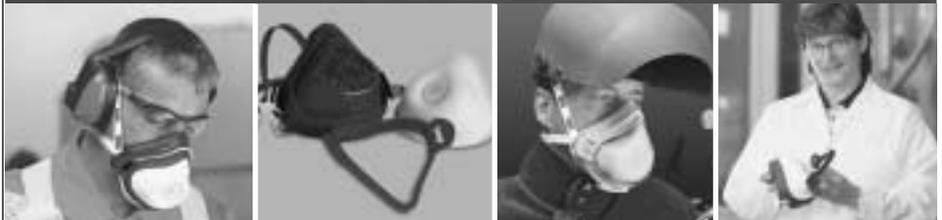
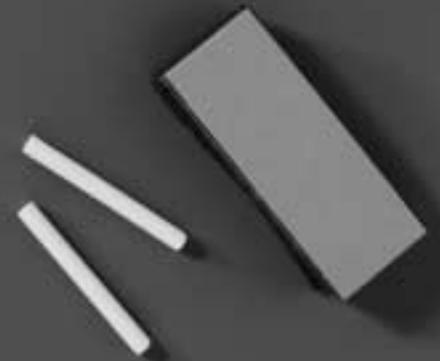
2002 saw 102 more fatalities than 2001, representing an increase of almost 10 percent. Since 1997, roadway construction

work zone-related fatalities have increased 70 percent. Texas led the nation in 2002 with 192 fatalities, followed by California (119), Georgia (118), Florida (87), New York (60), North Carolina (47), Arkansas (40), Tennessee (38), and Pennsylvania ▶ 14

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10 Ways to Recognize Hearing Loss

Using proper hearing protection when the workplace is noisy is one of the simplest and most effective things construction workers can do to protect themselves against hearing loss. From the National Institute on Deafness and Other Communications Disorders, www.nidcd.nih.gov, here are 10 ways to help recognize whether you may have diminished hearing.

- Do you have a problem hearing over the telephone?
- Do you have trouble following the conversation when two or more people are talking at the same time?
- Do people complain that you turn the TV volume up too high?
- Do you have to strain to understand conversation?
- Do you have trouble hearing in a noisy background?
- Do you find yourself asking people to repeat themselves?
- Do many people you talk to seem to mumble (or not speak clearly)?
- Do you misunderstand what others are saying and respond inappropriately?
- Do you have trouble understanding the speech of women and children?
- Do people get annoyed because you misunderstand what they say?

If you answered "yes" to three or more of these questions, you may want to have your hearing evaluated by an audiologist or ear, nose and throat physician.

ISEA member companies make a variety of high-tech earplugs and muffs to ensure worker comfort and effective communication. To obtain a free brochure on hearing protection products, put *Products to Keep You Tuned into Life* into the subject line of your email to jwalker@safetysafetyequipment.org, and be sure to include your name and mailing address. Or find the brochure on ISEA's website, safetysafetyequipment.org, and click on the "ISEA News" logo. ●

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A well-protected worker atop the Las Vegas Monorail guideway

MONORAIL BUILDERS

from cover

particularly well equipped for safety. Their high-visibility vests stood out, ensuring that the workers were readily visible to motorists and moving equipment. A closer look indicated fall protection seemed to be in use whenever and wherever it was needed on this elevated system. Observing a great deal of personal protective equipment (PPE) in evidence, we wanted to find out what made the project's PPE program tick.

We went to the source. Watsonville, Calif.-based Granite Construction Co. is building the monorail guideway and stations. Typically, the company builds roads, highways, bridges, tunnels, dams and airports, in addition to mass-transit facilities. But this is the first monorail Granite has built.

Kirk Robertson is the company's safety engineer. Here is what he had to say.

P.U. Please give us an overview of your worker safety program.

Robertson Before their first job assignment every new employee attends a thorough safety orientation and review of Granite's "Accident Prevention Program." The employee then reviews and is instructed in any job-specific work practices. Supervisors and foremen are instructed in the recognition of hazards and procedures for protecting employees and are responsible for safe work procedures within their scope of authority.

P.U. Are there any worker safety challenges on this project that you would consider unique, and how have you addressed them?

Robertson There really aren't any specific worker safety challenges to this project. What is a challenge is protecting the hundreds of thousands of visitors to Las Vegas while working adjacent to mega resorts.

P.U. How many workers are there on the project, and how many of those require some sort of PPE on a regular basis?

Robertson At full employment, there are 160 to 180 workers on the project, and all require some sort of personal protective equipment.

P.U. How have you dealt with heat stress and other hot-weather-related worker haz-

ards such as insects and poison plants?

Robertson Heat stress has been a major concern. Heat stress/stroke is discussed at "Safety Tailgate" meetings and crews' "Take 5 for Safety" meetings. Gatorade® and electrolyte tablets are supplied as temperature extremes call for preventative action.

P.U. In addition to the very evident high-visibility apparel, what other types of PPE do workers on this project require?

Robertson Hardhats, eye protection — glasses, shields, goggles, welding hoods, etc — hearing protection — earplugs or earmuffs, respiratory protection, dust masks and half-face respirators, and fall protection — body harnesses and lanyards.

P.U. Can you tell us about your PPE training program? Are there any "secrets of success" that you can share with our readers?

Robertson All employees are instructed in correct use, fit, selection, and so forth through safety meetings or individual training if needed.

P.U. What do you do to encourage use of PPE when it is needed?

Robertson PPE is *required* for certain activities, not *encouraged*!

P.U. How do you monitor and enforce PPE use?

Robertson Mandatory PPE usage is a term and condition of employment with Granite.

P.U. Have you had any interaction with U.S. Occupational Safety and Health Administration compliance officers?

Robertson We have regular contact with OSHA and have responded to their recommendations.

P.U. How many subcontractors are there? How is worker safety accountability managed from the general contractor through the subs?

Robertson There are approximately 12 subcontractors working for us; five of those are major subs. Our subs are responsible for their workers, but we take ultimate responsibility in seeing that the entire project and workers on it are safe.

P.U. An article in the May/June *Contractor Tools & Supplies* describes your fall-protection program. The "mule" approach would interest our readers.

Robertson Much of our work is along ▶ 14



Give Us Your Opinions on "ISEA Safety Midway"; Receive \$20 Gift Certificate

Be among the first 100 *Protection Update* readers to give us your opinions on an "ISEA Safety Midway" at future construction shows and receive a \$20 American Express gift certificate to spend any way you please compliments of ISEA member companies.

At World of Concrete (WOC) 2003, ISEA and its members sponsored a "Safety Station," where they handed out complimentary safety glasses, earplugs and respirators to protect spectators and demonstrators in the show's outdoor "demo" area. In light of

the extremely positive response, ISEA will repeat the "Safety Station" at WOC 2004 and is considering sponsoring a "Safety Midway" at future national heavy construction shows.

What we have in mind is far more than a kiosk or even a "Safety Aisle." Instead, it would be an area where ISEA and its members could sponsor classroom and hands-on training, expanded product demonstrations, safety-oriented games with prizes, meet-the-maker forums and so forth. We need your feedback in order to make this right.

Please take a few minutes to complete the accompanying survey and return it to ISEA by Nov. 26, 2003. The first 100 who respond will receive \$20 American Express gift certificates to thank them for their feedback. Individual responses will be kept confidential.

Aggregate results will be published in the winter 2004 *Protection Update*. ISEA members sponsoring the survey are Aearo Company, Bacou-Dalloz, MSA and North Safety. ●

Tell Us Your Story

Protection Update seeks stories from construction industry safety specialists giving concrete (pardon the pun) examples about how their safety programs incorporating personal protective equipment have prevented injuries, saved lives and saved their companies' money. If you have a story to tell, contact Editor Joe Walker at 703-525-1695 or jwalker@safetyspecialists.org. If you send an email, please provide your telephone number. *Protection Update* will write the stories for future issues based upon your experiences.

MONORAIL BUILDERS

from page 13

an elevated guideway or monorail track, which is from 25 to 65 feet above the ground. Granite and its subs have constructed "mules," or steel cages with wheels, that straddle the 26-inch guideway and can support up to two people. Each occupant is tied off to the mule, which can be man powered or motorized along the guideway. The mules allow workers to stand

up in a supported platform that rides on the guideways and puts the workers at chest level with the work instead of having to lean over the guideway. This provides the workers with fall protection and is a much more comfortable work posture.

P.U. Thank you, Mr. Robertson, and good luck for a successful completion of the project.

For more information on the Las Vegas monorail project's worker safety program, reach Robertson at 702-691-2001, ext. 238. ●

FATALITIES

from page 11

and Alabama (33 each), the National Work Zone Safety Information Clearinghouse reported.

"The total of 1,181 fatalities in 2002 is equivalent to the lives that probably would be lost in three jumbo-jet crashes," said Dan Shipp, president of the International Safety Equipment Association. "We are deeply

concerned about our nation's seeming inability to correct this unacceptable situation."

Although NHTSA does not break out fatalities data to identify workers, the report notes 134 pedestrians, 14 cyclists and four others who were not drivers or passengers. These pedestrians probably were workers, and some of the drivers, passengers, cyclists and others probably were workers, as well. ●

ISEA SAFETY MIDWAY SURVEY

Please complete this survey and fax it to Joe Walker, Editor, *Protection Update*, 703-528-2148, by Nov. 26, 2003. Be sure to fill out your contact information so that if you are among the first 100 we can send the "thank you" \$20 American Express gift certificate.

1. The idea of a "Safety Midway" at a major heavy construction show is a good one, or bad one, or no opinion.

2. Please rate on a scale of 1 (least useful/interesting) to 5 (most useful/interesting) how you would find each of the following potential "Safety Midway" features:

- 1 2 3 4 5 Safety equipment manufacturers in one area at the show.
- 1 2 3 4 5 Classroom training about PPE on the show floor.
- 1 2 3 4 5 Hands-on PPE training on the show floor.
- 1 2 3 4 5 "Meet the Manufacturers" panel discussions on the show floor.
- 1 2 3 4 5 Product demonstrations on the show floor.
- 1 2 3 4 5 Games or contests involving PPE with prizes given to the winners.
- 1 2 3 4 5 An area where all manufacturers would bring together "what's new in the world of PPE."
- 1 2 3 4 5 "Safety Equipment Works for You" testimonials from people whose lives have been saved by PPE.
- 1 2 3 4 5 "Latest in High-Viz Apparel" fashion show featuring various manufacturers.
- 1 2 3 4 5 "Latest in Protective Apparel" fashion show featuring various manufacturers.
- 1 2 3 4 5 Training on the show floor conducted in Spanish
- 1 2 3 4 5 Demonstrations proving that when an accident occurs it is impossible to get out of the way or don PPE in time to prevent injury or death.

3. Please rate on a scale of 1 (least useful) to 5 (most useful) how useful you would find "Safety Midway" training and/or demonstrations involving the following types of PPE:

- 1 2 3 4 5 Eye/face protection
- 1 2 3 4 5 Hearing protection
- 1 2 3 4 5 Respiratory protection/respiratory protective escape devices
- 1 2 3 4 5 Emergency eyewash and showers
- 1 2 3 4 5 Fall protection
- 1 2 3 4 5 Foot protection
- 1 2 3 4 5 Hand protection
- 1 2 3 4 5 Head protection
- 1 2 3 4 5 High-visibility apparel and products
- 1 2 3 4 5 Protective apparel
- 1 2 3 4 5 Air-monitoring and gas-detection instruments

4. Which national shows do you usually attend (check all that apply)?

- World of Concrete World of Asphalt ConExpo-Con/Agg NUCA
- The Steel Show National Pavement Expo International Construction & Utility Equipment Expo
- Other national shows (Please list): _____
- Regional shows (Please list): _____

5. Where should we send your \$20 American Express Gift Certificate?

Name _____

Company _____

Street Address _____

City/Town _____ State _____ ZIP Code _____

Return by fax to Joe Walker, 703-528-2148, by Nov. 26, 2003. Thank you for completing this survey.



SAFETY EQUIPMENT

Works for You

Editor's Note: *Protection Update* welcomes contributions from readers for our regular "Safety Equipment Works for You" feature. Email examples of where PPE has saved workers' lives or prevented injuries to Editor Joe Walker, jwalker@safetysafetyequipment.org, or mail them to the Editor, *Protection Update*, International Safety Equipment Association, 1901 N. Moore Street, Suite 808, Arlington, VA 22209. Photos are welcome.



Your Hardhat Saved My Life

Dear Fibre-Metal:

I'm writing this letter to inform you that your hardhat, Type 1, Class E, certified model ANSI Z-89.1-1997, saved my life on May 15, 2003. I...was working in a boiler for Maine Energy on the grates, which is on the first floor, when someone on the fifth floor dropped a 25-pound, eight-foot tube shield 60 to 65 feet, which hit me square on top of the head, directly in the middle of the hardhat.

The force sent me to the grates, knocking me unconscious for five to 10 minutes. I was taken to the hospital where a CT scan of my head was done and X-rays of my neck. Everything showed to be OK except sore muscles and headache for a few weeks. If hit inches either way I surely would have been killed. My wife, my three young children, and I thank you for saving my life. I sure do appreciate the making of this hardhat. Again, thanks for saving my life.

Very appreciative,
Kevin Burgess
Rockville, Rhode Island

Hardhat by Fibre-Metal, fibre-metal.com.



INTERNATIONAL
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